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M A T E R I A L S A F E T Y D A T A S H E E T

SECTION 1. - - - - - CHEMICAL IDENTIFICATION- - - - -

CATALOG #: HR2-619
NAME: ISO-PROPANOL

SECTION 2. - - - - - COMPOSITION/INFORMATION ON INGREDIENTS - - - - -

CAS #: 67-63-0
MF: C3H8O
EC NO: 200-661-7

SYNONYMS

ALCOOL ISOPROPILICO (ITALIAN) * ALCOOL ISOPROPYLIQUE (FRENCH) *
ALCOJEL * ALCOSOLVE * AVANTIN * AVANTINE * COMBI-SCHUTZ *
DIMETHYLCARBINOL * HARTOSOL * 2-HYDROXYPROPANE * IMSOL A * ISOHOL *
ISOPROPANOL * ISOPROPANOL * ISOPROPYL ALCOHOL (ACGIH:OSHA) * ISO-
PROPYLALCOHOL (GERMAN) * LUTOSOL * 1-METHYLETHANOL * 1-METHYLETHYL
ALCOHOL * PETROHOL * PRO * 2-PROPANOL * I-PROPANOL (GERMAN) * N-
PROPAN-2-OL * SEC-PROPYL ALCOHOL * 2-PROPYL ALCOHOL * I-PROPYLALCOHOL
(GERMAN) * SPECTRAR * STERISOL HAND DISINFECTANT * TAKINEOCOL *

SECTION 3. - - - - - HAZARDS IDENTIFICATION - - - - -

LABEL PRECAUTIONARY STATEMENTS

FLAMMABLE (USA)
HIGHLY FLAMMABLE (EU)

IRRITANT

IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.

RISK OF SERIOUS DAMAGE TO EYES.

TARGET ORGAN(S):

NERVES

KIDNEYS

KEEP AWAY FROM SOURCES OF IGNITION - NO SMOKING.

IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.

WEAR SUITABLE PROTECTIVE CLOTHING.

SECTION 4. - - - - - FIRST-AID MEASURES- - - - -

IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS. CALL A PHYSICIAN.

IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.

IN CASE OF CONTACT, IMMEDIATELY WASH SKIN WITH SOAP AND COPIOUS AMOUNTS OF WATER.

IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES.

ASSURE ADEQUATE FLUSHING OF THE EYES BY SEPARATING THE EYELIDS WITH FINGERS.

SECTION 5. - - - - - FIRE FIGHTING MEASURES - - - - -

EXTINGUISHING MEDIA

CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM.

SPECIAL FIREFIGHTING PROCEDURES

WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.

USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS.

UNUSUAL FIRE AND EXPLOSIONS HAZARDS

VAPOR MAY TRAVEL CONSIDERABLE DISTANCE TO SOURCE OF IGNITION AND FLASH BACK.

CONTAINER EXPLOSION MAY OCCUR UNDER FIRE CONDITIONS.

FLAMMABLE LIQUID.

SECTION 6. - - - - - ACCIDENTAL RELEASE MEASURES- - - - -

WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY RUBBER GLOVES.

ABSORB ON SAND OR VERMICULITE AND PLACE IN CLOSED CONTAINERS FOR DISPOSAL.

VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

SHUT OFF ALL SOURCES OF IGNITION.

EVACUATE AREA.

USE NONSPARKING TOOLS.

SECTION 7. - - - - - HANDLING AND STORAGE- - - - -

REFER TO SECTION 8.

SECTION 8. - - - - - EXPOSURE CONTROLS/PERSONAL PROTECTION- - - - -

SAFETY SHOWER AND EYE BATH.

MECHANICAL EXHAUST REQUIRED.

REMOVE AND WASH CONTAMINATED CLOTHING PROMPTLY.

WASH THOROUGHLY AFTER HANDLING.

DO NOT GET IN EYES, ON SKIN, ON CLOTHING.

DO NOT BREATHE VAPOR.

NIOSH/MSHA-APPROVED RESPIRATOR.

RUBBER GLOVES.

CHEMICAL SAFETY GOGGLES.

SECTION 9. - - - - - PHYSICAL AND CHEMICAL PROPERTIES - - - - -

PHYSICAL PROPERTIES

BOILING POINT: 81 - 83 C

MELTING POINT: -89,5 C

FLASHPOINT 53,6 F
12 C

EXPLOSION LIMITS IN AIR:

UPPER 12 %
LOWER 2,5 %

VAPOR PRESSURE: 44 MMHG

SPECIFIC GRAVITY: 0,785

VAPOR DENSITY: 2,1 G/L

SECTION 10. - - - - -STABILITY AND REACTIVITY - - - - -

STABILITY

STABLE.

INCOMPATIBILITIES

OXIDIZING AGENTS

ACIDS

ACID ANHYDRIDES

HALOGENS

ALUMINUM

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS

CARBON MONOXIDE, CARBON DIOXIDE

HAZARDOUS POLYMERIZATION

WILL NOT OCCUR.

SECTION 11. - - - - - TOXICOLOGICAL INFORMATION - - - - -

ACUTE EFFECTS

CAUSES SKIN IRRITATION.

PROLONGED OR REPEATED EXPOSURE TO SKIN CAUSES DEFATTING AND

DERMATITIS.

CAUSES SEVERE EYE IRRITATION.

MATERIAL IS IRRITATING TO MUCOUS MEMBRANES AND UPPER
RESPIRATORY TRACT.

MAY BE HARMFUL BY INHALATION, INGESTION, OR SKIN ABSORPTION.

CAN CAUSE CNS DEPRESSION.

PROLONGED EXPOSURE CAN CAUSE:

NAUSEA, HEADACHE AND VOMITING

NARCOTIC EFFECT

TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND
TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

CHRONIC EFFECTS

TARGET ORGAN(S):

NERVES

KIDNEYS

CARDIOVASCULAR SYSTEM

G.I. SYSTEM

RTECS #: NT8050000

ISOPROPYL ALCOHOL

IRRITATION DATA

SKN-RBT 500 MG MLD	NTIS** AD-A106-944
EYE-RBT 100 MG SEV	AJOPAA 29,1363,1946
EYE-RBT 10 MG MOD	TXAPA9 55,501,1980
EYE-RBT 100 MG/24H MOD	85JCAE -,191,1986

TOXICITY DATA

ORL-MAN LDLO:5272 MG/KG	AJCPAI 38,144,1962
ORL-HMN LDLO:3570 MG/KG	34ZIAG -,339,1969
UNR-MAN LDLO:2770 MG/KG	85DCAI 2,73,1970

ORL-RAT LD50:5045 MG/KG	GISAAA 43(1),8,1978
IHL-RAT LC50:16000 PPM/8H	NPIRI* 1,100,1974
IPR-RAT LD50:2735 MG/KG	EVHPAZ 61,321,1985
IVN-RAT LD50:1088 MG/KG	EVHPAZ 61,321,1985
ORL-MUS LD50:3600 MG/KG	GISAAA 43(1),8,1978
IPR-MUS LD50:4477 MG/KG	EVHPAZ 61,321,1985
IVN-MUS LD50:1509 MG/KG	EVHPAZ 61,321,1985
ORL-RBT LD50:6410 MG/KG	FAONAU 48A,114,1970
SKN-RBT LD50:12800 MG/KG	NPIRI* 1,100,1974
IPR-RBT LD50:667 MG/KG	EVHPAZ 61,321,1985
IVN-RBT LD50:1184 MG/KG	EVHPAZ 61,321,1985
IPR-GPG LD50:2560 MG/KG	EVHPAZ 61,321,1985
IPR-HAM LD50:3444 MG/KG	EVHPAZ 61,321,1985

TARGET ORGAN DATA

SENSE ORGANS AND SPECIAL SENSES (OTHER EYE EFFECTS)

BEHAVIORAL (SOMNOLENCE)

BEHAVIORAL (HALLUCINATIONS, DISTORTED PERCEPTIONS)

CARDIAC (PULSE RATE DECREASED WITH FALL IN BP)

VASCULAR (BP LOWERING NOT CHARACTERIZED IN AUTONOMIC SECTION)

GASTROINTESTINAL (NAUSEA OR VOMITING)

EFFECTS ON EMBRYO OR FETUS (FETAL DEATH)

ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES

(RTECS) DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN RTECS FOR

COMPLETE INFORMATION.

SECTION 12. - - - - - ECOLOGICAL INFORMATION - - - - -

DATA NOT YET AVAILABLE.

SECTION 13. - - - - - DISPOSAL CONSIDERATIONS - - - - -

BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND

SCRUBBER BUT EXERT EXTRA CARE IN IGNITING AS THIS MATERIAL IS HIGHLY FLAMMABLE.

OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

SECTION 14. - - - - - TRANSPORT INFORMATION - - - - -

CONTACT HAMPTON RESEARCH FOR TRANSPORTATION INFORMATION.

SECTION 15. - - - - - REGULATORY INFORMATION - - - - -

EUROPEAN INFORMATION

EC INDEX NO: 603-003-00-0

HIGHLY FLAMMABLE

IRRITANT

R 11

HIGHLY FLAMMABLE.

S 7

KEEP CONTAINER TIGHTLY CLOSED.

S 16

KEEP AWAY FROM SOURCES OF IGNITION - NO SMOKING.

REVIEWS, STANDARDS, AND REGULATIONS

OEL=MAK

ACGIH TLV-STEL 1230 MG/M3 (500 PPM) DTLVS* TLV/BEI,1997

ACGIH TLV-TWA 983 MG/M3 (400 PPM) DTLVS* TLV/BEI,1997

IARC CANCER REVIEW:ANIMAL INADEQUATE EVIDENCE IMEMDT 15,223,1977

IARC CANCER REVIEW:ANIMAL INADEQUATE EVIDENCE IMEMDT 71,1027,1999

IARC CANCER REVIEW:HUMAN INADEQUATE EVIDENCE IMSUDL 7,229,1987

IARC CANCER REVIEW:HUMAN INADEQUATE EVIDENCE IMEMDT 71,1027,1999

IARC CANCER REVIEW:GROUP 3 IMEMDT 71,1027,1999

EPA FIFRA 1988 PESTICIDE SUBJECT TO REGISTRATION OR RE-REGISTRATION

FEREAC 54,7740,1989

MSHA STANDARD-AIR:TWA 400 PPM (980 MG/M3)

DTLVS* 3,141,1971

OSHA PEL (GEN INDU):8H TWA 400 PPM (980 MG/M3)

CFRGBR 29,1910.1000,1994

OSHA PEL (CONSTRUC):8H TWA 400 PPM (980 MG/M3)

CFRGBR 29,1926.55,1994

OSHA PEL (SHIPYARD):8H TWA 400 PPM (980 MG/M3)

CFRGBR 29,1915.1000,1993

OSHA PEL (FED CONT):8H TWA 400 PPM (980 MG/M3)

CFRGBR 41,50-204.50,1994

OEL-AUSTRALIA:TWA 400 PPM (980 MG/M3);STEL 500 PPM (1225 MG/M3) JAN
1993

OEL-AUSTRIA: MAK 400 PPM (980 MG/M3), JAN1999

OEL-BELGIUM:TWA 400 PPM (985 MG/M3);STEL 500 PPM (1230 MG/M3) JAN 1993

OEL-DENMARK: TWA 200 PPM (490 MG/M3), JAN1999

OEL-GERMANY:TWA 400 PPM (980 MG/M3) JAN 1993

OEL-JAPAN:STEL 400 PPM (980 MG/M3) JAN 1993

OEL-JAPAN: STEL 400 PPM (980 MG/M3), JAN1999

OEL-THE NETHERLANDS:TWA 400 PPM (980 MG/M3);SKIN JAN 1993

OEL-THE PHILIPPINES:TWA 400 PPM (980 MG/M3) JAN 1993

OEL-RUSSIA:STEL 400 PPM (10 MG/M3) JAN 1993

OEL-POLAND: MAC(TWA) 900 MG/M3, MAC(STEL) 1200 MG/M3, JAN1999

OEL-SWEDEN:TWA 150 PPM (350 MG/M3);STEL 250 PPM (600 MG/M3) JAN 1993

OEL-SWITZERLAND:TWA 400 PPM (980 MG/M3);STEL 800 PPM JAN 1993

OEL-TURKEY:TWA 200 PPM (500 MG/M3) JAN 1993

OEL-UNITED KINGDOM:TWA 400 PPM (980 MG/M3);STEL 500 PPM;SKIN JAN 1993

OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA CHECK ACGIH TLV

OEL IN NEW ZEALAND, SINGAPORE, VIETNAM CHECK ACGIH TLV

NIOSH REL TO ISOPROPYL ALCOHOL-AIR:10H TWA 400 PPM;STEL 500 PPM

NIOSH* DHHS #92-100,1992

NOHS 1974: HZD 40987; NIS 465; TNF 213605; NOS 252; TNE 3183554

NOES 1983: HZD 40987; NIS 449; TNF 183402; NOS 278; TNE 4665524; TFE
2058264

EPA GENETOX PROGRAM 1988, NEGATIVE: CELL TRANSFORM.-SA7/SHE; N
CRASSA-ANEUPLOIDY

EPA TSCA SECTION 8(B) CHEMICAL INVENTORY

EPA TSCA SECTION 8(D) UNPUBLISHED HEALTH/SAFETY STUDIES

EPA TSCA SECTION 8(E) RISK NOTIFICATION, 8EHQ-0293-8734;8EHQ-0892-8787

EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, SEPTEMBER 1999

NIOSH ANALYTICAL METHOD, 1994: ALCOHOLS I, 1400

NIOSH ANALYTICAL METHOD, 1996: VOLATILE ORGANIC COMPOUND, 2549

U.S. INFORMATION

THIS PRODUCT IS SUBJECT TO SARA SECTION 313 REPORTING REQUIREMENTS.

SECTION 16. - - - - - OTHER INFORMATION- - - - -

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